

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : FUJITSU LTD

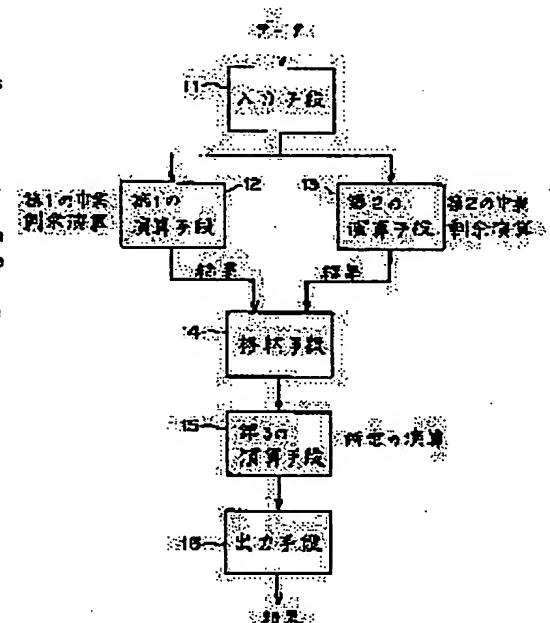
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## (54) ARITHMETIC UNIT FOR PERFORMING WIDTH REMAINDER CALCULATION

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To execute fast calculation of width remainder utilized for a ciphering system, etc., by processing two width remainder calculations in parallel.

**SOLUTION:** An input means 11 inputs data to calculation means, and a calculation means 12 calculates a 1st width remainder of the input data, and a calculation means 13 calculates a 2nd width remainder of the input data in parallel with the calculation means 12. And, a storage means 14 stores the results of the 1st and 2nd width remainder calculations. After that, the results of the two width remainder calculations are taken out of the storage means 14 by a calculation means 15, and a prescribed calculation is performed, and the calculation result is outputted by an output means 16. For example, in the case of cryptograph calculations based on the remainder theorem of the Chinese, the calculation means 12, 13 execute width remainder calculations of a specified formula concerning a ciphering data in parallel, and the calculation means 15 executes calculation of a specified formula by using those calculation results.



## LEGAL STATUS

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**Japanese Publication for Unexamined Patent Application**

**No. 2000-214777 (Tokukai 2000-214777)**

**A. Relevance of the above-identified Document**

This document has relevance to claims 1, 2 and 6 to 13 of the present application.

**B. Translation of the Relevant Passages of the Document**

See the attached English Abstract.



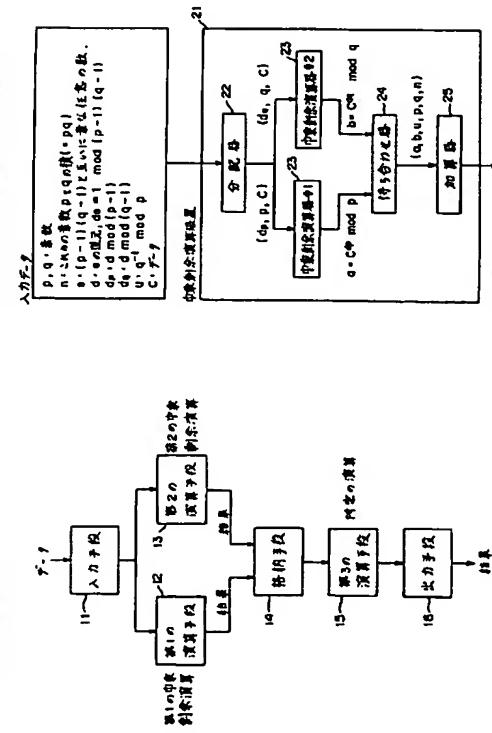




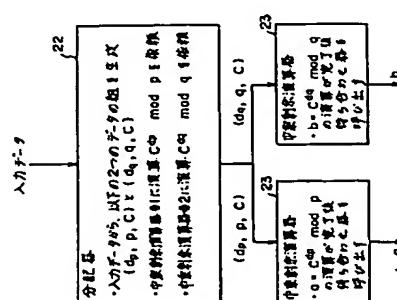
(7)

[図1]

実行部の構成図



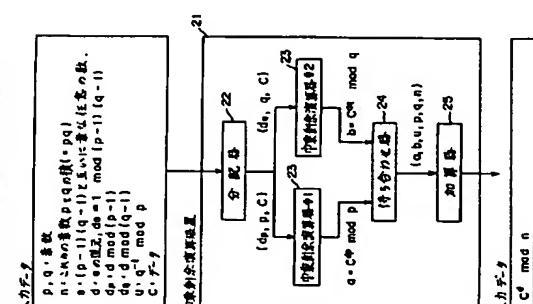
分配器: 中間余算器の処理手順



(8)

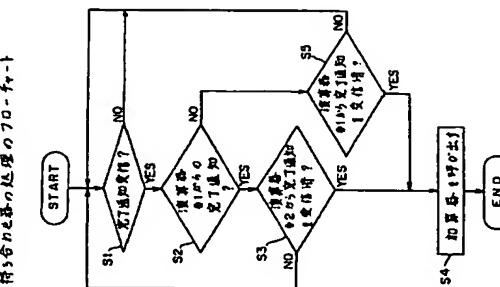
[図2]

実行部の中間余算器の構成図



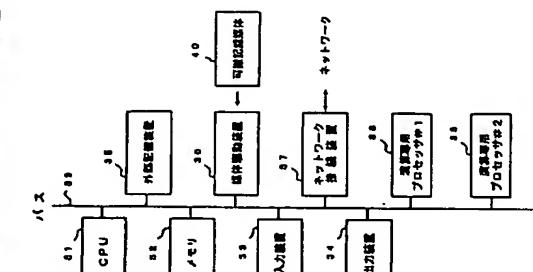
[図3]

分配器: 中間余算器の処理手順



[図5]

情報処理装置の構成図



[図7]

情報処理装置の構成図

